## Results of the "Opportunities in Basic Plasma Science" program

## for the

## DOE National Laboratories

Eighteen proposals were reviewed for the LAB 05-06 competition. The review has been completed and the following six projects have been selected to receive Fiscal Year 2006 funding:

- Laboratory Simulation of Stellar Flare Plasmas and Cometary Atmospheres (PI's: Peter Beiersdorfer-LLNL and Manfred Bitter- PPPL)

- Paul Trap Experiment to Simulate Intense Non-neutral Beam Propagation Through an Alternating-Gradient Field Configuration (PI: Ronald Davidson-PPPL)

- Study of Fundamental Physics of Magnetic Reconnection in a Controlled Laboratory Experiment (PI: Masaaki Yamada-PPPL)

- Exploration of Steady-State Plasma Acceleration and Detachment from an Expanding Magnetic Field (PI: Samuel Cohen-PPPL)

- Laboratory Study of MHD Effects on Stability and Turbulence in Free-Surface Liquid Metal Flow (PI: Hantao Ji-PPPL)

- Fundamental Studies of E x B Phenomena, (PI: Nathaniel Fisch-PPPL)